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1 Efficient, fair interpolation using Catmull-Clark surfaces

Mark Halstead, Michael Kass, Tony DeRose

September 1993 **Proceedings of the 20th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(788.34 KB) Additional Information: full citation, references, citings, index terms

Keywords: B-spline surfaces, computer-aided geometric design, subdivision surfaces, thin-plate splines

2 Constructive solid geometry for polyhedral objects

David H. Laidlaw, W. Benjamin Trumbore, John F. Hughes

August 1986 **ACM SIGGRAPH Computer Graphics , Proceedings of the 13th annual conference on Computer graphics and interactive techniques**, Volume 20 Issue 4

Full text available: pdf(5.76 MB) Additional Information: full citation, abstract, references, citings, index terms

Constructive Solid Geometry (CSG) is a powerful way of describing solid objects for computer graphics and modeling. The surfaces of any primitive object (such as a cube, sphere or cylinder) can be approximated by polygons. Being abile to find the union, intersection or difference of these objects allows more interesting and complicated polygonal objects to be created. The algorithm presented here performs these set operations on objects constructed from convex polygons. These objects must bound ...

3 Fast calculation of soft shadow textures using convolution

Cyril Soler, François X. Sillion

July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(709.44 KB) Additional Information: full citation, references, citings, index terms

Keywords: convolution, error-driven illumination, shadow map, soft shadows, texture

4 Schemata for interrogating solid boundaries
Michael Karasick, Derek Lieber
May 1991 **Proceedings of the first ACM symposium on Solid modeling foundations and CAD/CAM applications**
Full text available: pdf(937.48 KB) Additional Information: full citation, references, index terms

5 Dynamic scan-converted images with a frame buffer display device
J. H. Jackson
July 1980 **ACM SIGGRAPH Computer Graphics , Proceedings of the 7th annual conference on Computer graphics and interactive techniques**, Volume 14 Issue 3
Full text available: pdf(953.14 KB) Additional Information: full citation, abstract, references, citings, index terms

A color interactive display system which produces images of three-dimensional polygons and labels on a frame buffer display device is being developed. The entire image is scan converted and written into the frame buffer whenever it is modified. Since an entire image cannot be written into the frame buffer faster than 4.6 frames per second for the particular device chosen, an illusion of continuous motion cannot be supported. However, a rate of 3 frames per second has been found sufficient t ...

Keywords: Frame buffers, Interactive computer graphics, Raster displays, Run length encoding, Visible surface algorithms

6 Scanline rendering of parametric surfaces
Dino Schweitzer, Elizabeth S. Cobb
July 1982 **ACM SIGGRAPH Computer Graphics , Proceedings of the 9th annual conference on Computer graphics and interactive techniques**, Volume 16 Issue 3
Full text available: pdf(800.14 KB) Additional Information: full citation, abstract, references, citings, index terms

A scanline algorithm is described which renders bicubic patches directly from the parametric description without producing a polygonal approximation. The algorithm is partially based on earlier work by Whitted. A primitive object, called a "curved-edge polygon", is defined, and an algorithm for breaking down a bicubic patch into the primitive objects is described. A general surface intersection method is employed to provide a robust silhouette edge detector. Shades are computed ...

7 A butterfly subdivision scheme for surface interpolation with tension control
Nira Dyn, David Levine, John A. Gregory
April 1990 **ACM Transactions on Graphics (TOG)**, Volume 9 Issue 2
Full text available: pdf(740.26 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A new interpolatory subdivision scheme for surface design is presented. The new scheme is designed for a general triangulation of control points and has a tension parameter that provides design flexibility. The resulting limit surface is C1 for a specified range of the tension parameter, with a few exceptions. Application of the butterfly scheme and the role of the tension parameter are demonstrated by several examples.

8 More iteration space tiling
M. Wolfe
August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**
Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index

terms

Subdividing the iteration space of a loop into blocks or tiles with a fixed maximum size has several advantages. Tiles become a natural candidate as the unit of work for parallel task scheduling. Synchronization between processors can be done between tiles, reducing synchronization frequency (at some loss of potential parallelism). The shape and size of a tile can be optimized to take advantage of memory locality for memory hierarchy utilization. Vectorization and register ...

9 Projective transformations of the parameter of a Bernstein-Bézier curve

Richard R. Patterson

October 1985 **ACM Transactions on Graphics (TOG)**, Volume 4 Issue 4

Full text available: pdf(784.70 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The definitions of polynomial and rational Bernstein-Bézier curves are reviewed and extended to include homogeneous parametrizations. Then the effects of a projective transformation of the parameter space are described in terms of a group representation. This representation is used to answer the following questions: (1) If the control points are held fixed, when do two different sets of weights determine the same rational curve? (2) How do we find the control points for a subdivision ...

10 Composing Bézier simplexes

Tony D. DeRose

July 1988 **ACM Transactions on Graphics (TOG)**, Volume 7 Issue 3

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes two algorithms for solving the following general problem: Given two polynomial maps f: Rn ↦ RN and S RN ↦ Rd in Bézier simplex form, find the composition map &Stilde; = S ° f in Bézier simplex form (typically, n ⩽ N ⩽ d ⩽ 3). One algori ...

11 The quadcode and its arithmetic

Shu-Xiang Li, Murray H. Loew

July 1987 **Communications of the ACM**, Volume 30 Issue 7

Full text available: pdf(443.45 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The quadcode is a hierarchical data structure for describing digital images. It has the following properties: (1) straightforward representation of dimension, size, and the relationship between an image and its subsets; (2) explicit description of geometric properties, such as location, distance, and adjacency; and (3) ease of conversion from and to raster representation. The quadcode has applications to computer graphics and image processing because of its ability to focus on selected subs ...

12 Box-spline based CSG blends

Jörg Peters, Michael Wittman

May 1997 **Proceedings of the fourth ACM symposium on Solid modeling and applications**

Full text available: pdf(1.47 MB) Additional Information: full citation, references, index terms

13 A probabilistic algorithm for the post office problem

K Clarkson

December 1985 **Proceedings of the seventeenth annual ACM symposium on Theory of**

computing

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms

The post office problem is the following: points in d-dimensional space, so that given an arbitrary point p, the closest points in S to p can be found quickly. We consider the case of this problem where the Euclidean norm is the measure of distance. The previous best algorithm for this problem for d>2 requires &Ogr;(n2d+1

14 Evaluation and approximate evaluation of the multivariate Bernstein-Bézier form on a regularly partitioned simplex

Jörg Peters

December 1994 **ACM Transactions on Mathematical Software (TOMS)**, Volume 20 Issue 4

Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Polynomials of the total degree d in m variables have a geometrically intuitive representation in the Bernstein-Be´zier form defined over an m-dimensional simplex. The two algorithms given in this article evaluate the Bernstein-Be´zier form on a large number of points corresponding to a regular partition of the simplicial domain. The first algorithm is an adaptation of isoparametric evaluation. The second is a subdivision algori ...

Keywords: Bernstein-Be´zier form, multivariate, powerform, subdivision

15 Combining hierarchical radiosity and discontinuity meshing

Dani Lischinski, Filippo Tampieri, Donald P. Greenberg

September 1993 **Proceedings of the 20th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(543.28 KB) Additional Information: full citation, references, citings, index terms

Keywords: Mach bands, diffuse reflector, discontinuity meshing, global illumination, hierarchical radiosity, photorealism, quadratic interpolation, radiance function, radiosity, reconstruction, shadows, view-independence

16 A parallel randomized approximation scheme for shortest paths

Philip N. Klein, S. Sairam

July 1992 **Proceedings of the twenty-fourth annual ACM symposium on Theory of computing**

Full text available: pdf(935.61 KB) Additional Information: full citation, abstract, references, citings, index terms

We give a randomized parallel algorithm for approximate shortest path computation in an undirected weighted graph. The algorithm is based on a technique used by Ullman and Yannakakis in a parallel algorithm for breadth-first search. It has application, e.g., in approximate solution of multicommodity flow problems with unit capacities. We also show how to adapt the algorithm to perform better for planar graphs.

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1 Local area networks: sailing from the past to the present and into the future
Toby P. Gelman
October 1988 **Proceedings of the 16th annual ACM SIGUCCS Conference on User Services**
Full text available: pdf(894.49 KB) Additional Information: full citation, index terms

2 Designing and implementing the do-everything LAN
D. Panagopoulos, S. Bahr
October 1989 **Proceedings of the 17th annual ACM SIGUCCS conference on User Services**
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3 Version management in distributed network environment
Bogdan Korel, Horst Wedde, Srinivas Magaraj, Kalique Nawaz, Venugopal Dayana
May 1991 **Proceedings of the 3rd international workshop on Software configuration management**
Full text available: pdf(697.70 KB) Additional Information: full citation, references, index terms

4 Local networks
William Stallings
March 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 1
Full text available: pdf(3.01 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The rapidly evolving field of local network technology has produced a steady stream of local network products in recent years. The IEEE 802 standards that are now taking shape, because of their complexity, do little to narrow the range of alternative technical approaches and at the same time encourage more vendors into the field. The purpose of this paper is to present a systematic, organized overview of the alternative architectures for and design approaches to local networks.

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5 Marist college token ring test network
T. Renten, C. Algozzine
October 1989 **Proceedings of the 17th annual ACM SIGUCCS conference on User Services**
Full text available: pdf(437.33 KB) Additional Information: full citation, index terms

6 Migration Issues and Strategies for Token Ring
Bengt Beyer-Ebbesen, Mark Cowtan, Sharam Hakimi, Robert D. Love
July 1997 **International Journal of Network Management**, Volume 7 Issue 4
Full text available: pdf(472.60 KB) Additional Information: full citation, abstract, index terms

This article considers the problems caused by ever increasing traffic on Token Ring LANs. It shows how the new IEEE 802.5 standard for DTR addresses this problem, outlining scenarios and providing a migration strategy for evolving networks, using this new standard. © 1997 John Wiley & Sons, Ltd.

7 A prototype for a data communications laboratory
Martin H. Levin
March 1997 **ACM SIGCSE Bulletin , Proceedings of the twenty-eighth SIGCSE technical symposium on Computer science education**, Volume 29 Issue 1
Full text available: pdf(502.31 KB) Additional Information: full citation, abstract, citings, index terms

This paper describes the development of a small laboratory to serve as a prototype for a Data Communications Laboratory. We discuss the planning, construction, capabilities and use of the prototype lab by our three data communications courses. The capabilities and use of the lab in entry level microcomputer communications course, the entry level course, is demonstrated and explained, along with our plans for a larger lab in the near future based on a successful NSF-ILI grant request for addition ...

8 Practical experiences in interconnecting LANs via satellite
Nedo Celandroni, Erina Ferro, Francesco Potortì, Alessandro Bellini, Franco Pirri
October 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 5
Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, index terms

We present an experiment in interconnecting LANs via a satellite link and describe the individual components involved in the experiment. The project was developed in two phases: a) design and realisation of a satellite access scheme that supports real-time and non real-time traffic with a signal fading countermeasure, called FODA/IBEA-TDMA; b) interconnection of LANs where real-time and non real-time applications run. The experiment was presented the first time in June 1994 as a demo in which th ...

Keywords: TDMA fade countermeasure, satellite, satellite LAN interconnection, satellite videoconference

Results 1 - 8 of 8

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